



REPLACE 4" X 7" OBSERVATION DOORS (BOTH SIDES)

REPLACE 2" FLANGED 250 LB

BLOW-OFF VALVE A.S.A STD

ALL SIDES WALL FURNACE TUBES- 3" O.D. REPLACE

4" STD. PIPE SLEEVE PACK WITH INSULATION

18" X 15" DOORS (UNLINED)

6'-10 1/4"

24"

24"

9'-11 1/8" INSIDE CASING

FRONT PLATE THROAT AS FOR NEW

10'-10 7/8" INSIDE CASING

Q 48" DRUM

Q BOILER

ALL SIDES WALL FURNACE TUBES- 3" O.D.

1" WATER WALL DRAIN VALVES (BOTH SIDES)

12"

NOTE:
ALL ITEMS NOTED TO BE REPLACE SHALL
BE WILL NEW INDUSTRIAL PARTS AS PER
REQUIREMENTS OF SPECIFICATIONS.



A photograph of a large industrial machine, likely a steam engine or boiler, with various pipes, valves, and gauges. A red wavy line is drawn across the image, possibly indicating a specific component or area of interest.

BOILER CASING
REMOVE CASING PANELS. CONTRACTOR TO SANDBLAST PANELS.
CASING TO BE REINSTALLED WITH NEW GASKETS FOR PANEL INSULATION.
BOLTS ARE TO BE REPLACED AS REQUIRED OR INSTRUCTED BY THE
COR.

FURNACE AND CONVECTION WALLS:
REMOVE REFRACTORY AND INSULATION.
INSTALL NEW TILE AND BACK-UP INSULATION AS PER REQUIREMENTS.
TILE TO BE SUBMITTED TO THE GOVT. FOR APPROVAL.

BAFFLE WALL:	REMOVE EXISTING TILE AND INSTALL NEW REFRACTORY TILE
LOWER FRONT WALL:	REMOVE AND INSTALL FIRE BRICK
BURNER:	TEAR OUT AND FURNISH FACTORY APPLIED BURNER TILE AND BULL
TARGET WALL:	TEAR OUT AND INSTALL FIREBRICK WITH CASTABLE CAP
RIGHT AND LEFT SIDEWALLS:	TEAR OUT AND INSTALL NEW FIREBRICK WITH CASTABLE CAP

FURNACE FLOOR:
TEAR OUT FIRE BRICK AND INSULATION
INSTALL NEW INSULATION AND TWO (2) LAYERS OF FIREBRICK

BOILER DRUMS:
INSTALL NEW INSULATION AND CANVAS TO FOUR DRUMS HEADS TO MATCH EXISTING INSULATION.
INSTALL NEW LAGGING AND INSULATION TO STEAM DRUM

MUD DRUM:
RE-FACE TWO MAN-WAY RINGS



ATOMIZING STEAM/AIR SEPARATOR SYSTEM & CONDENSATE RETURN			
DESCRIPTION	SIZE	TYPE OF MATERIAL	QTY
1. PIPE BLK A-105	1"	SCH 80	2 LENGTHS
2. 90° ELLS THREAD	1"	FORGE STEEL 2000#	12
3. 45° ELLS THREAD	1"	FORGE STEEL 2000#	4
4. TEE'S	1"	FORGE STEEL 2000#	8
5. UNIONS	1"	FORGE STEEL 2000#	10
6. CK VALVES (CONC TYPE)	1"	BRONZE 250#	4
7. ISO. CONTR VALVE	1"	FORGE STEEL VQOT	4
8. COUPLINGS	1"	FORGE STEEL	3
9. WELD CAPS (CONC)	2 1/2"	BLK WELD CAPS	2
10. STRAINER Y-TYPE	1"	250#	1
11. BLK BUSHINGS SIZES		(4) 1" X 1/4" F.S. (2) 1" X 1/2" F.S. (1) 1" X 3/8" F.S.	4 2 1
12. ISO. GATE VALVE	1/2"	FORGE STEEL VQOT	3
13. 90° ELLS THREADED	1/2"	FORGE STEEL 2000#	8
14. 45° ELLS THREADED	1/2"	FORGE STEEL 2000#	4
15. TEE'S	1/2"	FORGE STEEL 2000#	3
16. CK VALVES (CONC TYPE)	1/2"	150#	2
17. STAINER	1/2"	150#	1
18. UNIONS	1/2"	FORGE STEEL 3000#	4
19. TRAP EITHER BUCKET OR THERMOSTATIC CONTROL	1/2"		1
20. PRESSURE GANGES OTO 200TH LM 1/4" BC 4" TO 4 1/2" FACE	1"		3

NOTE:
CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR GOVT. REVIEW. THIS IS ONLY A GENERAL
GUIDELINE OF PARTS SCHEDULE TO BE INCORPORATED INTO THE CONTRACTOR'S SHOP
DRAWINGS ALONG WITH OTHER PARTS TO BE INSTALLED IN EACH INDIVIDUAL SUBMITTAL.

RECOMMEND APPROVAL			
REQUESTER	Date		
CHIEF OF SERVICE	Date	CHIEF OF STAFF	Date
ASSOC. DIR. PATIENT CARE SVC.	Date	ASSOC. DIR. for OPERATIONS	Date
APPROVAL BY:			Date
MEDICAL CENTER DIRECTOR			

	Drawing Title
	SECTION VIEWS
	Approved: Safety Manager/M&O Supervisor
	Approved: Chief of Facilities Management Srv.

Project Title REPLACE REFRACTORY ON BOILER #2			
Building Number BUILDING #18	Checked	Drawn BLF	
Location W.G.(Bill) Hefner Medical Center 1601 Brenner Ave. Salisbury NC 28144			

Date	28 NOV 2012
Project No.	659-11-231
DRAWING NO.	M-101
DWG. 3	OF 4



Department of Veterans Affairs